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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,286	09/16/2003	Mario Scurati	31175803-004001	3225
52356	7590	05/04/2007	EXAMINER	
TAMSEN VALOIR, PH.D. BAKER & MCKENZIE LLP PENNZOIL PLACE, SOUTH TOWER 711 LOUISIANA, SUITE 3400 HOUSTON, TX 77002-2746			BOWERS, NATHAN ANDREW	
ART UNIT		PAPER NUMBER		
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05/04/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/663,286	SCURATI ET AL.	
	Examiner	Art Unit	
	Nathan A. Bowers	1744	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 08 January 2007.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-53 is/are pending in the application.
4a) Of the above claim(s) 32-44 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-31 and 45-53 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date
4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date.
5) Notice of Informal Patent Application
6) Other:

DETAILED ACTION

Priority

It is noted that a request to claim priority to application EP 99830206.1 (patent EP 1043770) was filed on 08 January 2007. This petition is currently still being reviewed. If accepted, the following prior art rejections apply. If denied, the prior art rejections set forth in the Office Action mailed 03 August 2006 still apply.

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The English language certified copy of TO 2002A 000808 mailed on 08 January 2007 was received.

Inventorship

In view of the papers filed 08 January 2007, it has been found that this nonprovisional application, as filed, through error and without deceptive intent, improperly set forth the inventorship, and accordingly, this application has been corrected in compliance with 37 CFR 1.48(a). The inventorship of this application has been changed by the addition of Gabriele Barlocchi and Flavio Villa as inventors.

The application will be forwarded to the Office of Initial Patent Examination (OIPE) for issuance of a corrected filing receipt, and correction of Office records to reflect the inventorship as corrected.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 8, the passage “comprising a heater, an electrode, a micropump...” appears to be incorrect. It is unclear whether the passage should read “comprising a heater, an electrode, *and* a micropump...” or “comprising a heater, an electrode, *or* a micropump...” Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

1) Claims 1-14, 23/(10), and 45-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pourahmadi (US 20020055167) or Anderson (US 20010036672), and further in view of Levine (US 6031286).

With respect to claims 1 and 45, Pourahmadi discloses an integrated micro-device for analysis of a biological specimen comprising a support (Figure 16:165). The support includes an inlet port, a first tank (Figure 16:173) and a detection chamber (Figure 16:177). The first tank and detection chamber are fluidly connected via a plurality of buried channels formed inside the support. This is disclosed in paragraphs [0013], [0014], [0115], [0117], [0118] and [0199]-[0204]. Paragraph [0199] specifically states that the device further includes a printed circuit board (Figure 16:167) arranged next to the support. Paragraphs [0056] and [0064] indicate that the micro-device also comprises various sensors. The support and the sensors are operably coupled to the printed circuit board.

Anderson discloses an integrated micro-device for analysis of a biological specimen comprising a support that includes a first tank (Figure 3:202) and a detection chamber (Figure

3:218). The first tank and detection chambers are fluidly connected by a plurality of pretreatment channels and buried channels. A plurality of additional chambers (Figure 3:206; 210; 214) are additionally provided in fluid communication with the first and detection chambers. This is disclosed in paragraphs [0009], [0037]-[0040] and [0080]. Paragraph [0088] indicates that detection equipment is provided at the detection chamber for determining the presence of various biological analytes.

Pourahmadi and Anderson, however, do not clearly indicate that the channels are “buried channels.”

Levine discloses a method for creating buried microfluidic channels in a semiconductor wafer. This is disclosed in column 3, line 31 to column 4, line 54. Figures 3 and 4 show channels (35, 50) that are completely surrounded on all sides by the semiconductor substrate.

Pourahmadi, Anderson, and Levine are analogous art because they are from the same field of endeavor regarding the use of microfluidic semiconductor wafers.

At the time of the invention, it would have been obvious to ensure that the microfluidic channels disclosed by Pourahmadi and Anderson are buried channels surrounded on all sides by the support substrate. Levine indicates that buried microchannels can be easily constructed in a semiconductor support using known etching and deposition techniques. Column 2, lines 8-17 indicates that buried microchannels are beneficial because they can be created in a cost effective manner. Buried microchannels can be formed in a variety of different geometries and shapes depending on the requirements of the current experiment.

With respect to claim 2, Pourahmadi discloses that a micropump is provided on the support for moving a specimen from the first tank to the detection chamber through the buried channel. Paragraphs [0065] and [0066] state that various pumps are utilized for moving fluids through the microfluidic system. Anderson also discloses that micropumps are provided on the support for moving a specimen from the first tank to the detection chamber through the buried channels. This is indicated in paragraph [0159].

With respect to claims 3 and 46-49, Pourahmadi discloses that a heater is provided on the disposable support. This is described in paragraph [0075]. Paragraphs [0021], [0064] and [0124]-[0126] disclose the use of software and control elements to regulate the functioning of the device. Anderson also discloses that a controllable heater is provided on the disposable support. This is described in paragraphs [0116] and [0117].

With respect to claims 4 and 8, Pourahmadi discloses the apparatus in claim 1 wherein electrodes are positioned on the support. This is disclosed in paragraphs [0135]-[0137]. Pourahmadi indicates that these electrodes, as well as additional micropumps, are used in moving specimens throughout the microfluidic system. In paragraph [0162], Anderson also discloses that electrodes are positioned on the support.

With respect to claim 5, Pourahmadi discloses that the support further comprises a second tank (Figure 16:201) fluidly coupled with a buried channel. It is apparent from Figures 2 and 16 that the support includes a plurality of fluid tanks. Anderson also discloses that the support

further comprises a second tank (Figure 3:206) fluidly coupled with a buried channel. It is apparent from Figure 3 that the support includes a plurality of fluid tanks.

With respect to claims 6, 7 and 9, Pourahmadi discloses that the support comprises silicon. This is clearly indicated in paragraph [0097]. Silicon is considered to be a material characterized by a high thermal conductivity. Anderson also discloses that the support comprises silicon. This is clearly indicated in paragraph [0095]. Silicon is considered to be a material characterized by a high thermal conductivity.

With respect to claims 10-14 and 23/(10), Pourahmadi discloses an integrated device for analysis of nucleic acid. The device comprises a support (Figure 16:165) that includes a first tank (Figure 16:173) and a detection chamber (Figure 16:177). The first tank and detection chamber are fluidly connected via a plurality of buried channels and pre-treatment channels formed inside the support. This is disclosed in paragraphs [0013], [0014], [0115], [0117], [0118] and [0199]-[0204]. Paragraph [0199] specifically states that the device further includes a printed circuit board (Figure 16:167) arranged next to the support. Paragraphs [0056] and [0064] indicate that the micro-device also comprises various sensors. The support and the sensors are operably coupled to the printed circuit board.

With respect to claims 50-52, Pourahmadi discloses that the portable device includes a sample injection system that comprises a cap mechanism (Figure 16:185) through which samples

are moved. Paragraphs [0021], [0064] disclose the use of software and control elements to regulate sample flow through a plurality of pretreatment and buried channels.

2) Claims 15-22, 23/(17,22), and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pourahmadi (US 20020055167) in view of Levine (US 6031286) as applied to claim 14, and further in view of Freeman (US 6653124).

With respect to claims 15, 16 and 18-21, Pourahmadi and Levine disclose the apparatus set forth in claim 14 as set forth in the 35 U.S.C. 103 rejection above. Pourahmadi, however, does not expressly indicate that pre-treatment channels are formed above the support and confined by a containment structure and a protective cover.

Freeman discloses a microfluidic chip that comprises a plurality of detection chambers (Figure 1:12) and connecting fluid channels (Figure 1:14,16,18). Column 7, line 15 to column 9, line 64 indicates that the device is used for detecting nucleic acid hybridization reactions. Column 13, line 54 to column 14, line 8 indicate that the microfluidic structures are formed above a support (Figure 4:30), and are delimited laterally by containment structures (Figure 4:46,56) and on top by a protective plate (Figure 4:50) that covers the containment structures. Column 25, lines 25-33 and column 26, lines 21-41 indicate that the containment structures and covers are made from conductive polymeric materials, glass, circuit board, silicon, and other pertinent materials. The cover includes a transparent window to facilitate optical detection methods.

Pourahmadi, Levine and Freeman are analogous art because they are from the same field of endeavor regarding microfluidic detection devices.

At the time of the invention, it would have been obvious to provide pre-treatment channels in the apparatus disclosed by Pourahmadi that are formed above the support, rather than buried in the support. In column 13, line 54 to column 14, line 8, Freeman indicates that this type of construction is well known in the microfluidic art, and is particularly simple to create. The thickness of the containment structure can be regulated to quickly determine the height of the channels and chambers. Methods of sealing the support, containment structure, and cover together are well known in the art, and can be completed in an effective and precise manner.

With respect to claims 17 and 22, Pourahmadi, Levine and Freeman disclose the apparatus set forth in claim 16 as set forth in the 35 U.S.C. 103 rejection above. In addition, Pourahmadi indicates in paragraphs [0135]-[0137] that electrodes are positioned in the flow channels in order to transport biomolecules using dielectrophoresis techniques. An electrostatic cage is formed since particles are allowed to move between areas characterized by a positive charge and areas characterized by a negative charge.

With respect to claims 23(17,22) and 24, Pourahmadi, Levine and Freeman disclose the apparatus set forth in claims 17 and 22 as set forth in the 35 U.S.C. 103 rejection above. Pourahmadi additionally discloses in paragraphs [0065] and [0066] that various micropumps are utilized for moving fluids through the microfluidic system. Paragraph [0067] specifically discloses the use of vacuum pumps.

3) Claims 25-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pourahmadi (US 20020055167) in view of Levine (US 6031286) and Freeman (US 6653124) as applied to claim 24, and further in view of Kaplan (US 6453928) and/or Webster (US 6521188).

Pourahmadi, Levine and Freeman disclose the apparatus set forth in claim 24 as set forth in the 35 U.S.C. 103 rejection above, however do not provide specific information regarding the disclosed vacuum pumps.

Kaplan discloses a microfluidic pumping mechanism in which a plurality of chambers (Figure 5:132, 142, 152) are provided on a semiconductor support. The chambers are fluid tight, and are set at preset pressures. Column 1, line 63 to column 2, line 7, column 3, line 49 to column 4, line 29, and column 12, line 56 to column 14, line 6 indicate that fluids move between various chambers through suction channels. The fluid tight chambers are sealed by a diaphragm that is electrically openable. Electrodes (Figure 2:34) are provided creating holes in the diaphragms, and thereby initiating the pumping mechanism. This is disclosed in column 15, lines 15-25.

Webster discloses a similar system to that described by Kaplan. Webster discloses a plurality of pressurized chambers (Figure 1:13) that are connected via a suction channel (Figure 1:12). The pressurized chambers are sealed by a diaphragm that is opened by an electrode (Figure 1:15) near the inlet of each fluid chamber. This is disclosed in column 3, lines 37-67.

Pourahmadi, Levine, Freeman, Kaplan and Webster are analogous art because they are from the same field of endeavor regarding microfluidic systems.

At the time of the invention, it would have been obvious to utilize the pumping mechanisms disclosed by Kaplan and Webster to move the fluids disclosed by Pourahmadi to

and from the detection chamber. Kaplan and Webster each teach that their vacuum micropumping system is beneficial because it is less complicated, costly and cumbersome than many mechanically and valve based micropumps. The pressurized chambers disclosed by Kaplan and Webster can be easily incorporated into semiconductor material substrates, and can effectively be operated by a diaphragm and electrode combination. Limitations regarding the thickness of the diaphragm are not considered to patentable distinctions over the prior art because they represent result effective variables that are optimized through routine experimentation. See MPEP 2144.05.

4) Claim 53 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pourahmadi (US 20020055167) in view of Levine (US 6031286) as applied to claim 52, and further in view of McDevitt (US 20030064422).

Pourahmadi and Levine disclose the apparatus set forth in claim 52 as set forth in the 35 U.S.C. 103 rejection above, however do not expressly disclose that the detection chamber utilizes a CMOS detector.

McDevitt discloses a microfluidic chip that is capable of detecting nucleic acid analytes in a sample fluid. In paragraphs [0010], [0014] and [0503]-[0506], McDevitt teaches that target nucleic acids are hybridized to capture probes located in a detection chamber during the analysis of a sample solution. Paragraph [0561] states that CMOS detectors are utilized to determine the presence of analytes.

Pourahmadi, Levine and McDevitt are analogous art because they are from the same field of endeavor regarding microfluidic biochemical detection apparatuses.

At the time of the invention, it would have been obvious to provide the detection chamber disclosed by Pourahmadi with a CMOS detector. McDevitt discloses in paragraph [0561] that CMOS detectors are advantageous over other traditional detection devices because they can easily be fit within the casing of a portable sensor array system. McDevitt also indicates that CMOS detectors are low in cost and power consumption. Furthermore, CMOS detectors would have been beneficial to implement because they allow one to place sensing elements and microelectronics on a single integrated chip.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5) Claims 1, 3, 4, 6 and 7 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-4 and 10-14 of copending Application No. 09/874382. Although the conflicting claims are not identical, they

are not patentably distinct from each other because both applications claim a micro-device comprising a support, buried channels, and a detection chamber. The instant application is generic to Application No. 09/874382 in the sense that Application No. 09/874382 discloses the support to specifically be a semiconductor material body, whereas the instant application does not make this requirement in the independent claims. Furthermore, Application No. 09/874382 specifically discloses the use of sensing electrodes, rather than broadly claiming a standard detection chamber.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

6) Claims 1, 3-7 and 10-13 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 16-20 of copending Application No. 11/017272. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications claim a micro-device comprising a support, buried channels, and a detection chamber. The instant application is generic to Application No. 11/017272 in the sense that Application No. 11/017272 discloses the support to specifically be a semiconductor material body whereas the instant application does not make this requirement in the independent claims. Furthermore, Application No. 11/017272 specifically discloses the use of a nucleic acid detection chamber comprising an array of probes, rather than broadly claiming a standard detection chamber. Application No. 11/017272 additionally discloses multiple processing chambers fluidly linked to inlets, outlets, and the detection chamber through a microfluidic circuit.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

7) Claims 1, 6 and 7 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-11 and 34 of copending Application No. 11/009171. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications claim a micro-device comprising a support, buried channels, and a detection chamber. The instant application is generic to Application No. 11/009171 in the sense that Application No. 11/009171 discloses the support to specifically be a monolithic body made from semiconductor material. Furthermore, Application No. 11/009171 specifically discloses the use of a detection area that is observed through an opening formed in the body, rather than broadly claiming a standard detection chamber.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

8) Claims 1-3, 5-7, 10-14 and 45-49 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 9, 10, 13-15 17, 19 and 20 of copending Application No. 11/092415. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications claim a micro-device comprising a support, buried channels, a detection chamber, and a printed circuit board. The instant application is generic to Application No. 11/092415 in the sense that Application No. 11/092415 discloses additional limitations regarding the structure of the temperature control

device. Application No. 11/092415 additionally discloses a heater, micropump, the use of semiconductor materials, and that the sample to be analyzed comprises nucleic acids.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Response to Arguments

The double patenting rejections involving co-pending applications 09/874382, 11/017272, 11/009171, and 11/092415 are still maintained and deemed proper. It is agreed that each of these applications were filed after the first US or international filing date for the instant application. However, the double patenting rejections are maintained in order to ensure common ownership.

Applicant's arguments filed 08 January 2007 with respect to the 35 U.S.C. 102 rejections involving Pourahmadi and Anderson have been fully considered and are persuasive. These rejections have been withdrawn.

Applicant's arguments filed 08 January 2007 with respect to the 35 U.S.C. 103 rejections involving the combination of either Pourahmadi or Anderson with Villa have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the combination of either Pourahmadi or Anderson with Levine.

Levine addresses the deficiencies of Pourahmadi and Anderson by indicating that the construction of “buried channels” is known in the art. Levine teaches that buried channels can be created in a reliable and cost effective manner.

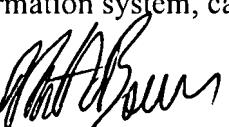
Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Burns (US 6653124) reference discloses the state of the art regarding micro-devices comprising buried channels and detection chambers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan A. Bowers whose telephone number is (571) 272-8613. The examiner can normally be reached on Monday-Friday 8 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gladys Corcoran can be reached on (571) 272-1214. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


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